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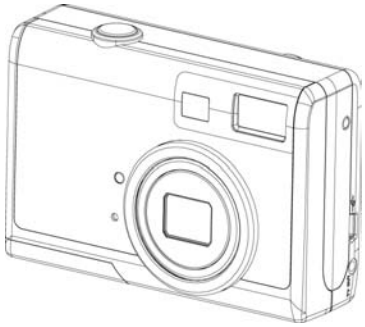
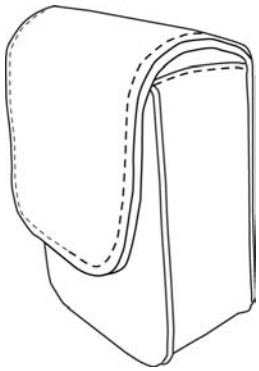
1 Getting Started

Package Contents

Please contact your dealer immediately if any of the items below are missing or damaged.

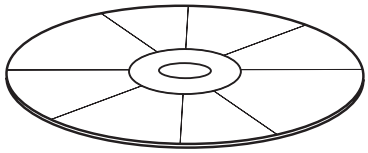


Camera

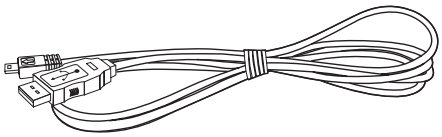


Soft Case

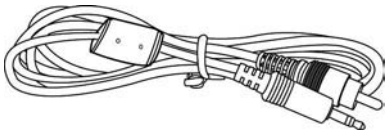
Strap



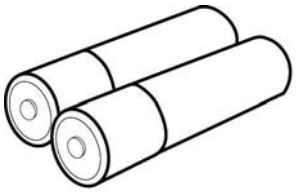
Software Installation CD-ROM



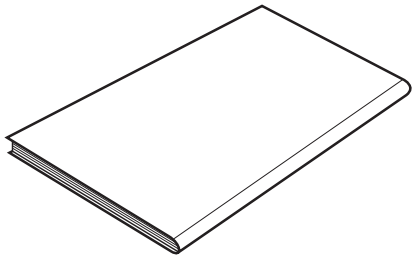
USB Cable



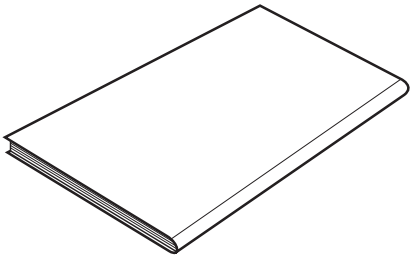
Video out Cable



2 AA Batteries



User Manual



Quick Start Guide

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System Requirements

Windows:

- PC with processor better than MMX Pentium 233 MHz
- Windows XP/2000/ME/98SE/98
- Minimum 32 MB RAM
- USB port
- CD-ROM drive
- 800x600 pixels, 16-bit color display compatible monitor

Macintosh:

- Power Mac G3 or later
- Mac OS 9.0, 9.1, 9.2 and OS X
- Minimum 64 MB RAM
- USB port
- CD-ROM drive
- 800x600 pixels, 16-bit color display compatible monitor

Specifications are subject to change without prior notice.

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Safety Information

- Before using the camera, please ensure that you read and understand the safety precautions described below. Always ensure that the camera is operated correctly.
- Do not aim the camera directly into the sun or other intense light sources which could damage your eyesight.
- Do not try to open the case of the camera or attempt to modify this camera in any way. High-voltage internal components create the risk of electric shock when exposed. Maintenance and repairs should be carried out only by authorized service providers.
- Do not fire the flash too close to the eyes of animals or people, especially for young children. Eye damage may result. In particular, remain at least one meter away from infants when using flash.
- Keep the camera away from water and other liquids. Do not use the camera with wet hands. Never use the camera in the rain or snow. Moisture creates the danger of fire and electric shock.
- Keep the camera and its accessories out of the reach of children and animals to prevent accidents or damage to the camera.
- If you notice smoke or a strange odor coming from the camera, turn the power off immediately and unplug the AC adapter from the power outlet. Take the camera to the nearest authorized service center for repair. Never attempt to repair the camera on your own.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock or other hazards.
- Disconnect the compact power adapter from both the camera and power outlet after recharging and when the camera is not in use to avoid fires and other hazards.

The compact power adapter of the camera is designed for exclusive use with this camera. Do not use it with other products. There is a risk of fire and other hazards.

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FCC Compliance and Advisory

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1.) this device may not cause harmful interference, and 2.) this device must accept any interference received, including interference that may cause unsatisfactory operation.

This equipment has been tested and found to comply with the limits for a Class B peripheral, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. When shielded interface cables have been provided with the product or when specified additional components or accessories have elsewhere been designated to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

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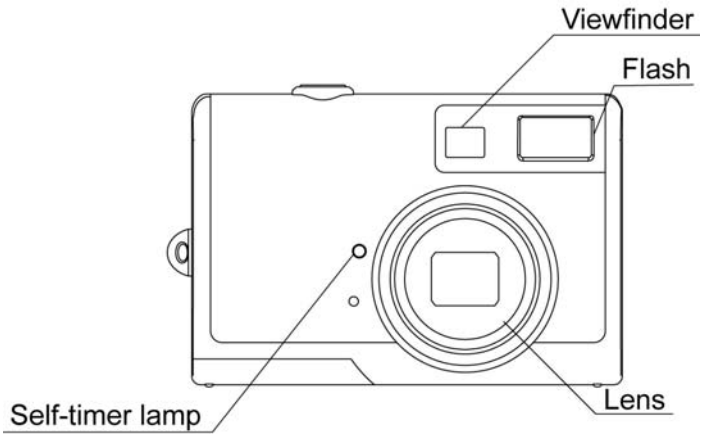
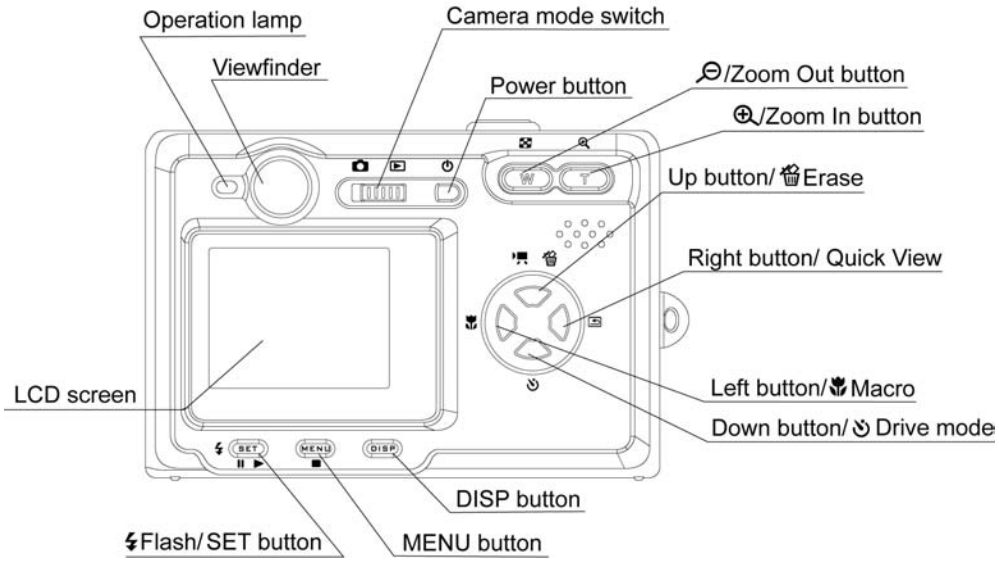
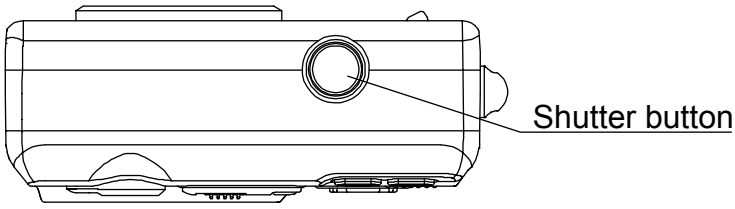
Camera Components



Front



Rear



Top

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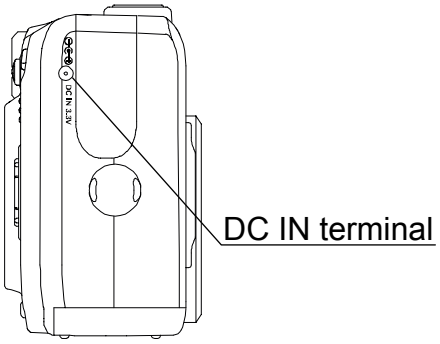
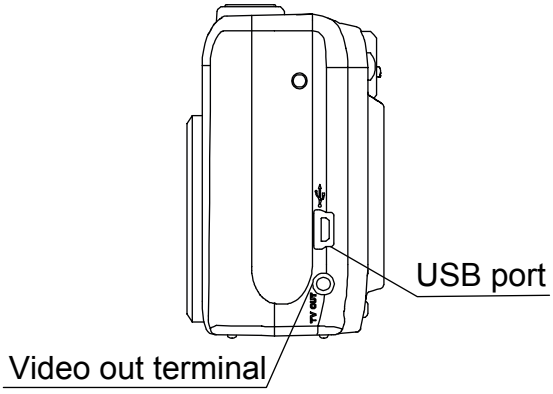




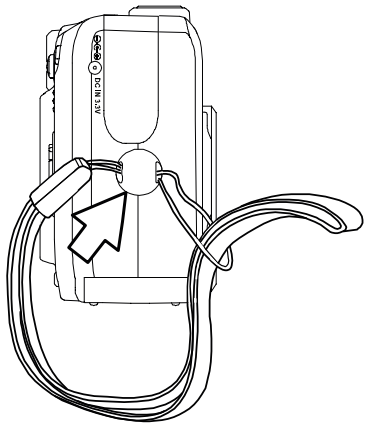
Side

Using the Included Accessories

Attaching the Wrist Strap

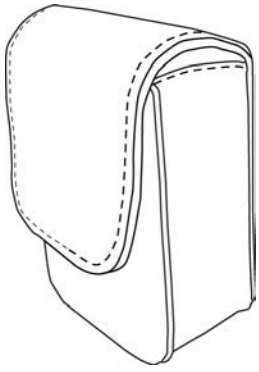
The illustration shows how to attach the wrist strap to your camera.

Don't swing the camera when carrying it by the wrist strap.



Using the Soft Case

- Store the camera in the included soft case when not in use.
- Slide the camera in the case with the LCD screen facing down as illustrated.



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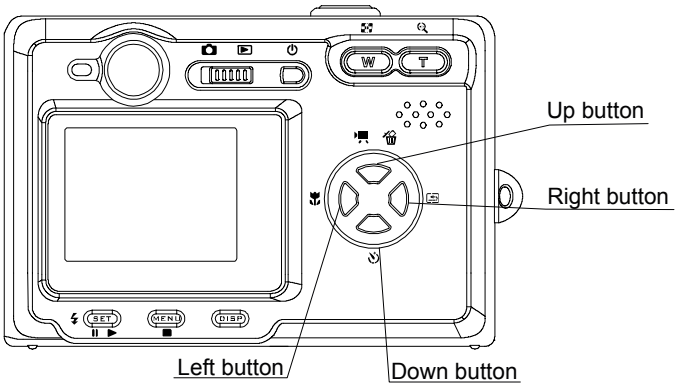
Operating the Multi-controller

The multi-controller is used to select choices, images and menus on the LCD monitor and confirm the selection.



Moving the cursor on the LCD monitor up and down.

Press the MENU button.

Press the ▼ or ▲ to select a menu item on the LCD monitor.

Moving the cursor on the LCD monitor left and right.

Press the MENU button.

Press the ◀ or ▶ to select a menu item on the LCD monitor.

Confirming a menu selection.

Press the **SET** button.

Press the MENU button to close the menu window.

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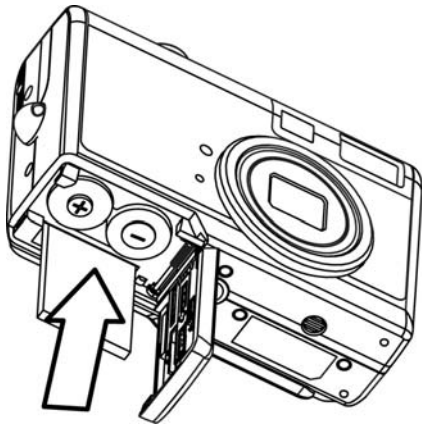
2 Preparing the Camera

Installing the Batteries

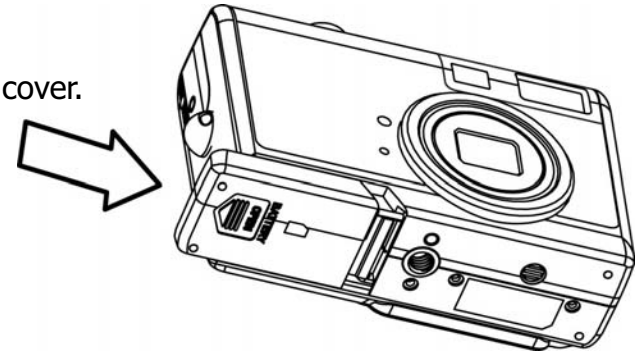
Insert two (2) AA-size alkaline batteries (included with the camera)

1. Be sure that the camera power is off.

2. Slide the SD card slot / battery cover and open the battery cover.



3. Insert the battery pack with the positive (+) and negative (-) poles matching the directions indicated inside the battery cover.



4. Slide the battery cover closed.

Battery Status Indications

The LCD monitor displays an icon or message to let you know when batteries are low or Depleted.

Charge Level	High ⟷ Low
Indicator	

When the indicator on the left side of the viewfinder is blinking green, the SD card is being written to, read, erased or transmitted to. Therefore, never turn off the camera or open the SD card slot/battery cover while this indicator is blinking green.

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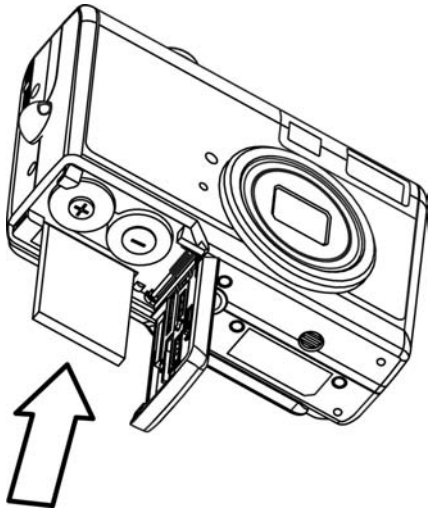
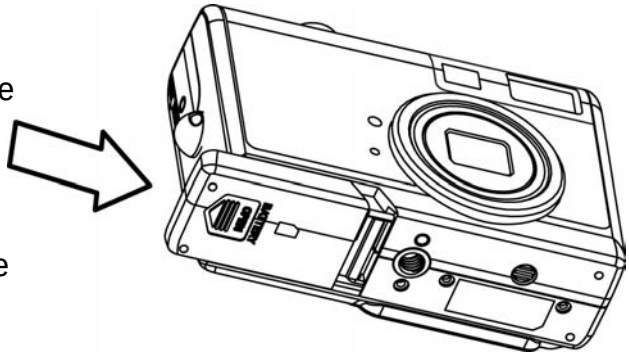
Installing an SD Card

1. Turn off the camera.
2. Slide the SD card slot/battery cover in the direction of the arrow to open the cover.
3. Insert the SD card with the label facing up and the arrow pointing in.



To remove the SD card

1. Turn off the camera.
2. Slide the SD card slot/battery cover in the direction of the arrow to open the cover.
3. Gently press on the edge of the SD card and release it. Pull the card out and close the slot/battery cover.



Formatting Internal or SD Card Memory

You should format a new SD card or one from which you wish to erase all images and other data.

1. Turn on the camera.
2. Press the MENU button.
3. Press the ▶ arrow to select the **Setup Menu**.
4. Press the ▼ or ▲ arrow to select **Format** then press the ▶ button.

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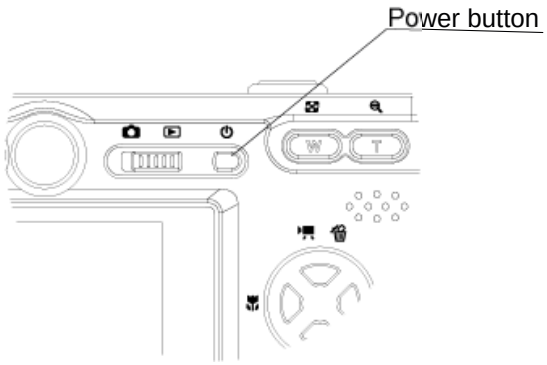
5. Press the ▼ and ▲ arrow to select Yes or No.
6. Press the **SET** button to confirm the selection.

1. Please note that formatting an SD card erases all the data it contains, including protected images and other file types. Please check the contents of the SD card before formatting it.
2. SD cards formatted in another camera, computer or peripheral device may not operate correctly. When that happens, reformat the SD card with this camera.

Turning the Power On / Off

Press the power button and hold it until the LCD indicator begins flashing green. It takes about 1 second to power on the camera.



To turn off the camera

Press the power button to turn off the camera.

1. If camera power is turned off by the Auto Power Off feature, press the power button to turn it back.

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Setting the Date and Time

1. Turn on the camera.
2. Press the MENU button.
3. Press the ▶ arrow to select the **Setup Menu**.
4. Press the ▼ or ▲ arrow to select **Date & Time** then press the ▶ button.
5. Set the date and Time.
6. Press the ◀ and ▶ arrow to select a field to change.
7. Press the ▼ and ▲ arrow to set the values.
8. Press the **SET** button.
9. Press the MENU button to close the menu window.

Date Stamp

Prints the image's creation date on the image.

1. Press the MENU button.
2. Press the ▼ or ▲ arrow to select **Date Stamp** then press the **SET** button.
3. Press the ▼ or ▲ to set **Date Stamp** on/off.
4. Press the **SET** button.
5. Press the MENU button to close the menu window.

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Setting the Language

1. Press the MENU button.
2. Press the ▶ arrow to select the **Setup Menu**.
3. Press the ▼ or ▲ arrow to select **Language** then press the **SET** button.
4. Press the ▼ or ▲ to select a Language.
5. Press the **SET** button to close the menu window.

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Selecting Menus and Settings

Use the menus as shown below to operate the various shooting and replaying settings.

1. Press the MENU button.
2. Press the ◀ or ▶ arrow to select the **REC / Playback** or the **Setup Menu**.
3. Press the ▼ or ▲ arrow to select a menu item then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.
5. Press the MENU button to close the menu window.

This chart shows the options for each menu settings.

Menu Items Selectable with the MENU Button

	Menu Item	Available Setting
Shooting Mode REC Menu	Scene	Auto
	Resolution	
	Quality	
	Exposure	+2/+1.7/+1.3/+1.0/+0.7/+0.3/0.0/-0.3/-0.7/-1.0/-1.3/-1.7/-2.0
	White Balance	
	Metering	Auto / Multi / Spot
	Effect	Off
	Date Stamp	On / Off
	Long Shutter	Off / 1 sec / 2 sec / 4 sec / 8 sec

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Setup Menu	Beep	On / Off
	Power Off	Off / 1 min / 3 min / 5 min
	Quick View	No / Yes
	Date & Time	Sets the date and time
	Language	English/ Japanese / Traditional Chinese / Simplified Chinese / German / French / Spanish / Italian / Dutch / Portugese / Korean / Russian
	Format	No / Yes
	File NO. Reset	On / Off
	TV Out	NTSC / PAL
	USB	Computer / Printer

Play Mode Playback Menu	Protect	Single / Protect All / Unprotect All
	Delete All	Single / All
	Slide Show	Off / 5 sec / 10 sec
	Print Order	Single / All / Reset
	Copy To Card	No / Yes
Movie Mode REC Menu	Exposure	+2/+1.7/+1.3/+1.0/+0.7/+0.3/0.0/-0.3/-0.7/-1.0/-1.3/-1.7/-2.0
	White Balance	AWB
	Effect	Off

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3 Basic Functions

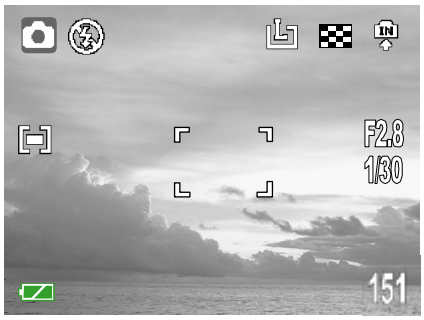
Setting the LCD Display Mode

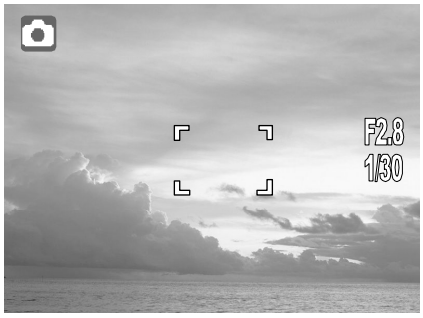
Pressing the **DISP** button switches the LCD screen display mode.

Pressing the **DISP** button cycles the LCD screen to the next mode each time the button is pressed.

Shooting Mode

On (with Information)→→On (No Information) →→No LCD monitor display





Playback Mode

Display (Information)→→ Simple Display (No Information)

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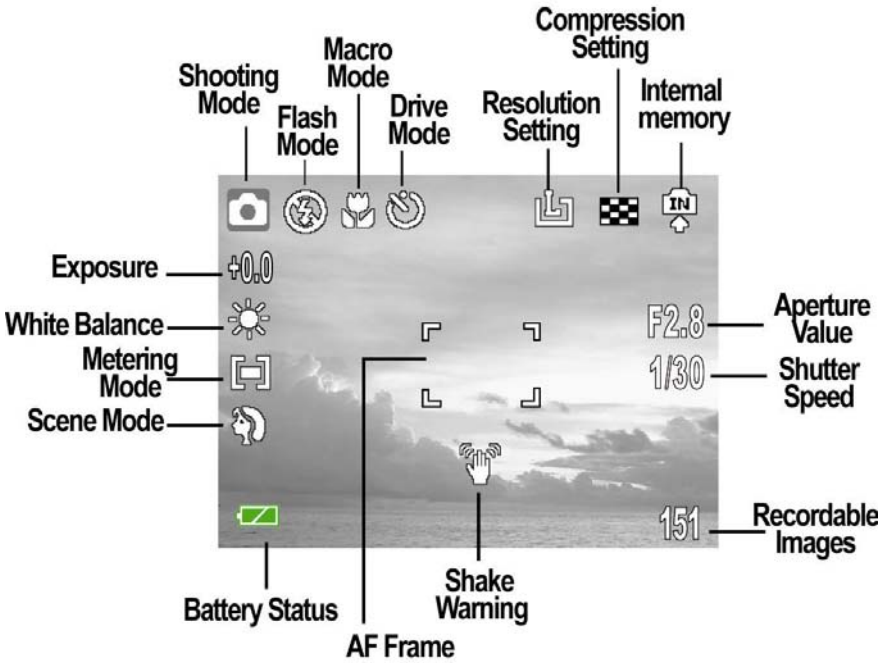
Information Displayed on the LCD Monitor

The LCD monitor displays information in Shooting or Playback mode, such as the camera settings, remaining image capacity and shooting date.

Shooting Mode



Playback Mode

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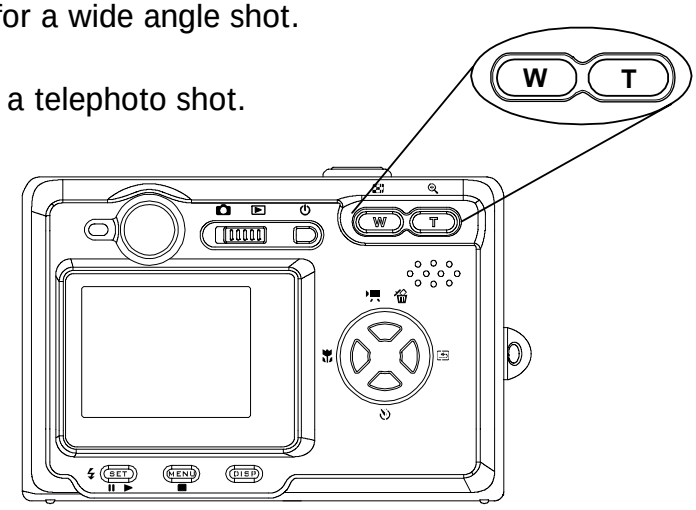
Using the Zoom Feature

The Zoom can be adjusted from 5.9 ~ 17.17 mm (35~103 mm when converted to 35 mm film format)

Telephoto / Wide Angle

Press **W** to zoom out for a wide angle shot.

Press **T** to zoom in for a telephoto shot.

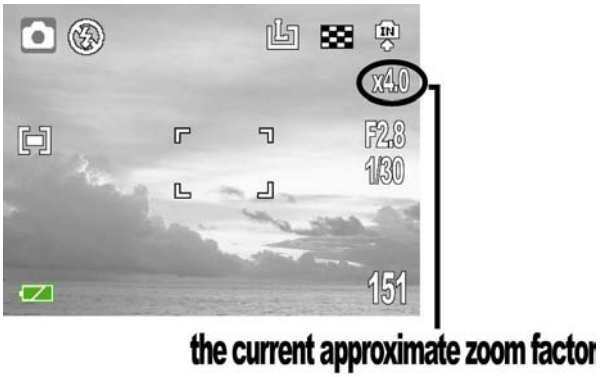


Digital Zoom

When the LCD monitor is on, you can digitally zoom in on a subject. Images can be zoomed up to 4 times.

Press **T** to zoom in.

The lens will zoom to the maximum optical telephoto setting and stop. Release the lever and press it toward again to further zoom the image digitally. The zoom indicator shows the current approximate zoom factor.



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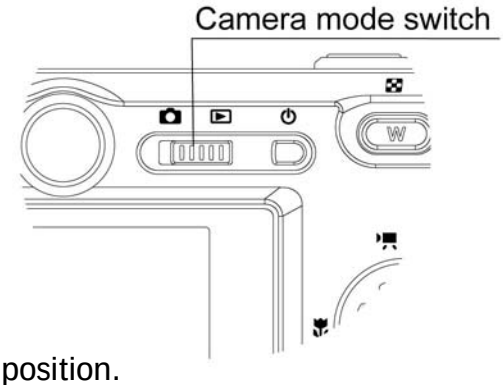
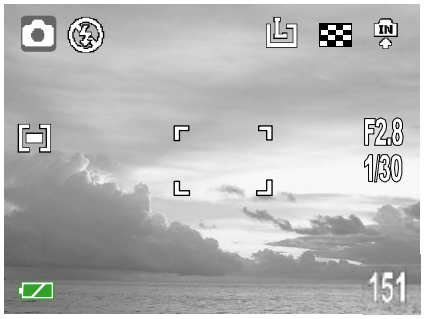
4 Taking Pictures

Basic Still Image Shooting

In this mode, all you have to do is press the shutter button and let the camera do everything else.



1. Set the camera mode switch to .
2. Aim the camera at the subject.
3. Use the zoom level to achieve the desired composition.



4. Press the shutter button down halfway.
   When the camera has finished adjusting its settings, the auto focus indicator will appear.
5. Press the shutter button all the way.

1. Please note that camera shake becomes a factor at low shutter speeds. If the camera shake warning appears on the LCD monitor, secure the camera to a tripod before shooting.

2. When the shutter button is pressed half way down, check the exposure value that appears on the LCD monitor to make sure it is appropriate for the current light conditions.

3. The green auto focus indicator appears on the LCD monitor when the camera has successfully locked the exposure, white balance, and focus.

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Replaying an Image after Shooting Quickly

The quick playback function is available in each shooting mode.

1. Press ▶ to view the captured photo or video clip.
2. To delete the file, press 🗑. Press ▼ and ▲ to select YES or NO, press **SET** to confirm the choice.
3. Press ▶ again, return to shooting mode.

Setting the Image Quality and Resolution

You can change the image quality and resolution settings to suit the purpose of the image you are about to shoot.

1. Press the MENU button.
2. Press the ◀ or ▶ arrow to select the **REC Menu**.
3. Press the ▼ or ▲ arrow to select **Resolution** or **Quality** then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.
5. Press the MENU button to close the menu window.

Resolution		Purpose
(Large)	2592×1944	Print large prints
(Medium 1)	2304×1728	Print on small size paper
(Medium 2)	1600×1200	Send images by e-mail
(Small)	640×480	Shoot more images

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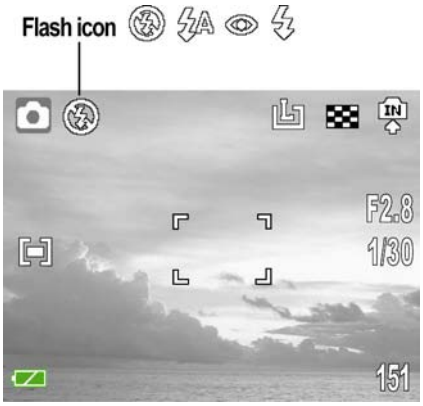
Image Quality		Purpose
	Fine (5× compression rate)	Shoot fine quality images
	Normal (8× compression rate)	Shoot normal quality images
	Economy (12× compression rate)	Shoot more images

Using the Flash

Use the flash according to the guidelines below

	Auto	The flash fires automatically as required by the lighting level.
	Red-eye reduction, Auto	The flash fires automatically as required by the lighting level, and the flash pre-strobes before shooting to reduce red-eye phenomenon.
	Force On	The flash always fires.
	Force Off	The flash does not fire.

1. Press the **SET** button to switch between flash modes.
2. The selected flash mode appears on the LCD monitor.
3. You can switch between settings by pressing the **SET** button.
4. Shoot the image.



Setting the Red-eye Reduction Function

The Red-eye reduction function fires when the flash is used in dark areas. This prevents light from reflecting back from the eyes and making them appear red.

When shooting with the red-eye reduction function, the subjects must look right at the flash for this mode to be effective. Try asking them to look directly at the flash. Even better results can be obtained by shooting with the lens set to a wide angle, by increasing the lighting indoor settings, or by approaching closer to the subject.

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Selecting the Metering Mode

This function enables you to select the metering mode to suit the shooting conditions and purpose.

Multi-pattern metering

The image is divided into multiple regions and metering is performed for each region. The camera judges the subject position and background brightness, and determines a well-balanced exposure.

Spot metering

Meters the spot AF point corresponding to the AF frame.

1. Press the MENU button.
2. Press the ◀ or ▶ arrow to select the **REC Menu**.
3. Press the ▼ or ▲ arrow to select **Metering** then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.
5. Press the MENU button to close the menu window.

Macro Mode

Use the macro mode to shoot close-up of subjects in the range of 10 cm at the wide angle end and 50 cm at the telephoto end.

1. Press the DISPLAY button to turn the LCD monitor on.
2. Press the button.
3. The icon appears on the LCD monitor.
4. Shoot the image.

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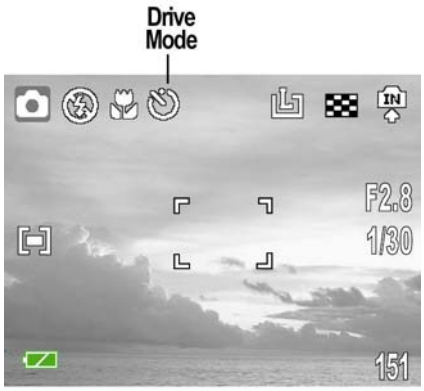
1. *Distances referred to measure the distance between the camera lens surface and the subject.*
2. *Any flash setting can be used in macro mode.*
3. *Always use the LCD monitor to compose images in macro mode. Shooting with the optical viewfinder is possible, however, the parallax phenomenon may cause images composed with the optical viewfinder to be off-center.*

Setting the Self-Timer

You can take pictures with the self-timer in any shooting mode.

Use the self-timer to set a delay from the time the shutter button is pressed to the time the image is shot.



1. Press the button to switch between Drive modes.
2. The selected drive mode appears on the LCD monitor.
3. You can switch between settings by pressing the button.
4. Shoot the image.

The self-timer lamp starts blinking after the shutter button is pressed all the way. The image will be shot after approximately 10 seconds. The self-timer blinking gets faster two seconds before the shutter activates.

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Shooting in Long Shutter Mode

You can set the shutter speed to a slow setting to make dark subjects appear brighter.

1. Press the MENU button.
2. Press the ◀ or ▶ arrow to select the REC Menu.
3. Press the ▼ or ▲ arrow to select **Long Shutter** then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.
5. Press the MENU button to close the menu window.

Please note that camera shake becomes a factor at low shutter speeds. If the camera shake warning appears on the LCD monitor, secure the camera to a tripod before shooting.

Available Shutter Speeds

The following shutter speeds are available: 1 sec, 2 sec, 4 sec, 8 sec

Adjusting the Exposure ---EV adjustment

Adjust the exposure compensation setting to compensate for certain light conditions including: backlighting, indirect indoor lighting, and dark backgrounds.

1. Press the MENU button.
2. In the camera menu, press the ▼ or ▲ arrow to select **Exposure** then press the **SET** button..
3. Press the ◀ and ▶ to set the exposure compensation value. Available settings are:-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0.0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.0 then press the **SET** button.
4. Shoot the image.

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Adjusting Color Tones ---Setting the White Balance

When the white balance mode is set to match the light source, the camera reproduces colors more accurately.

AWB	Auto	Settings are automatically set by the camera
	Day light	For recording outdoors on a bright day
	Shade	For recording under overcast, shady or twilight skies
	Tungsten	For recording under tungsten lighting
	Fluorescent	For recording under fluorescent lighting

1. Press the MENU button.
2. In the camera menu, press the ▼ or ▲ arrow to select **White Balance** then press the **SET** button.
3. Press the ◀ and ▶ to set the white balance value then press the **SET** button.

Using the Scene Mode

Selecting one of the 4 scenes automatically sets up the camera for recording a similar type of image.

1. Press the MENU button.
2. Press the ◀ or ▶ arrow to select the **REC Menu**.
3. Press the ▼ or ▲ arrow to select **Scene** then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.

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1. You can change the camera settings that are made when you select a scene. Note, however, that the scene settings revert to their defaults when you select another scene, change the recording mode.

Using the Photo Effect

An image can be recorded in a different Photo Effect Mode.

	Sepia	Records images in sepia tones.
	Black & White	Records images in black & white.
	Vivid	Emphasizes the contrast and color saturation to record in bold colors.

1. Press the MENU button.
2. Set Scene to “Auto” mode.
3. Press the ▼ or ▲ arrow to select **Effect** then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.

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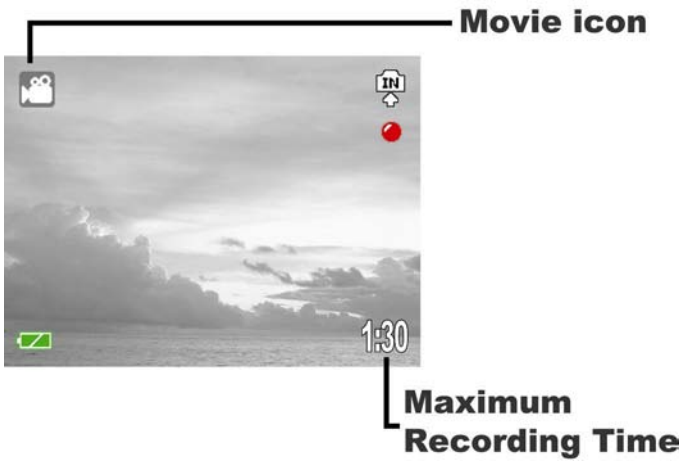
Movie Mode

The digital camera can shoot movie clips with audio.

1. Set the **camera mode switch** to .
2. Press the button to **movie mode**.
3. The LCD monitor displays the maximum recording time.
4. Press the shutter button all the way
5. Press the shutter button all the way to stop recording the movie.
6. The camera stops recording automatically when the memory capacity has been reached.



Be careful not to touch the microphone while shooting.

1. *The resolution is set to 320×240 pixels. Video resolution cannot be changed.*
2. *If the indicator on the left side of the viewfinder blinks green after a shot, this indicates that the movie is being written to the SD card. You cannot shoot again until it stops blinking.*
3. *White balance is set and locked to the settings of the first frame.*

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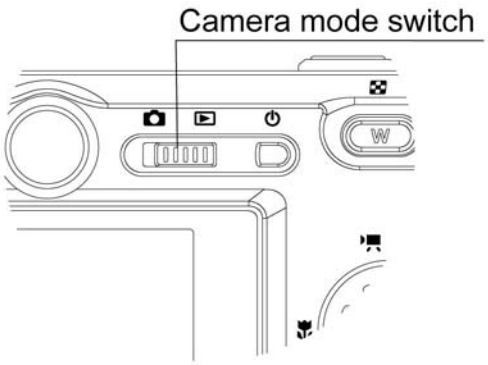
5 Replaying Photo & Video Clips

Replaying Pictures

You can view the recorded images and video clips on the LCD monitor.



Set the camera mode switch to ▶.

The last recorded image or video clip appears on the LCD monitor.

Use ◀ to move to the previous image and ▶ to move to the next image.

Set the camera mode switch to 📷, return to shooting mode.

*Press the **DISP** button to show the data for the displayed image.*

Press the 🗑 button to quickly delete the displayed image.

Magnifying Images

Images can be magnified up from 1 times to 8 times.

1. In the PLAY ▶ mode.
2. Press **T** to magnify the image.
3. Press the ◀, ▶, ▼ or ▲ arrows to move the magnified area around the image.
4. Press **W** to zoom out to the original full-sized image.

The zoom factor is shown

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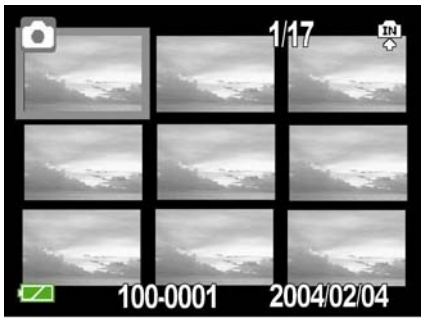
Viewing Pictures in Thumbnail Mode

The Thumbnail mode allows you to view up to nine images at a time on the LCD monitor. The playback function is available in each shooting mode.

1. In the PLAY ▶ mode.
2. The last captured image appears on the LCD monitor.
3. Press the wide angle **W** button to view thumbnail images.
4. The selected image is highlighted.
5. Press the ◀, ▶, ▼ or ▲ to select an image.
6. Press the telephoto **T** button to display the selected image in full screen size.

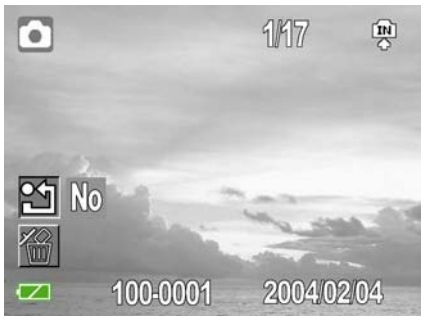


Erasing Files From Memory

Erase files that you don't want to keep to make more memory space available. You can erase individual files or all files when the camera is in playback mode.

Erasing Images Individually

1. In the PLAY ▶ mode.
2. The last recorded image or video clip appears on the LCD monitor.
3. Use ◀ to move to the previous image and ▶ to move to the next image.
4. To delete the file, press 🗑. Press ▼ and ▲ to select YES or NO, press **SET** to confirm the choice.



Please note that erased images cannot be recovered. Exercise caution before erasing a file.

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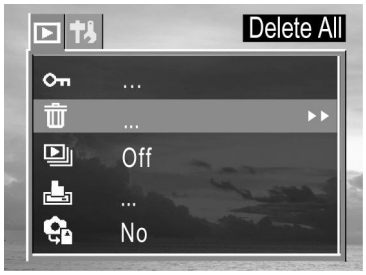
Erasing All Unprotected Images

1. In the PLAY ▶ mode.
2. The last recorded image or video clip appears on the LCD monitor.
3. Press the MENU button.
4. Press the ▼ arrow to select **Delete ALL**.
5. Press ▼ and ▲ to select Single or All, press ▶ and then select Yes or No, then press the **SET** button to confirm the choice.
6. Press the MENU button to close the menu window.



Protecting Photos and Video Clips

You can protect important images from accidental erasure.

1. In the PLAY ▶ mode.
2. The last recorded image or video clip appears on the LCD monitor.
3. Press the MENU button.
5. Press the ▼ arrow to select **Protect** then press the **SET** button.
4. Press ▼ and ▲ to select Single or All, press ▶ and then select Yes or No, then press the **SET** button to confirm the choice.
5. Press the MENU button to close the menu window.

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Playing a Slide Show (Auto Play)

In slide show mode, all images can be displayed one-by-one in an automated slide show.

1. In the PLAY ▶ mode.
2. Press MENU button.
3. Press the ▼ arrow to select **SLIDE SHOW** then press the **SET** button.
4. Press the ▼ or ▲ to select OFF, 5 sec, 10 sec and then press **SET**.

   The slide show begins automatically, starting from the current display image.
5. Press **SET** button to stop the slide show.

Copying Flash Memory Images to a Memory Card

The camera allows you to copy all files that are stored in the camera's internal memory to an installed SD memory card.

1. In the PLAY ▶ mode.
2. Press the MENU button.
3. Press the ▼ arrow to select **Copy To Card** then press the **SET** button.
4. Press ▼ or ▲ to select YES or NO, press **SET** to confirm the choice.
5. Press the MENU button to close the menu window.

Setting USB Mode

You can set USB mode to connect the camera with a printer or computer.

1. Press the MENU button.
2. Press the ▶ arrow to select the **Setup Menu**.
3. Press the ▼ or ▲ arrow to select **USB** then press the **SET** button.
4. Press the ▼ or ▲ to select computer or printer.
5. Press the **SET** button to close the menu window.

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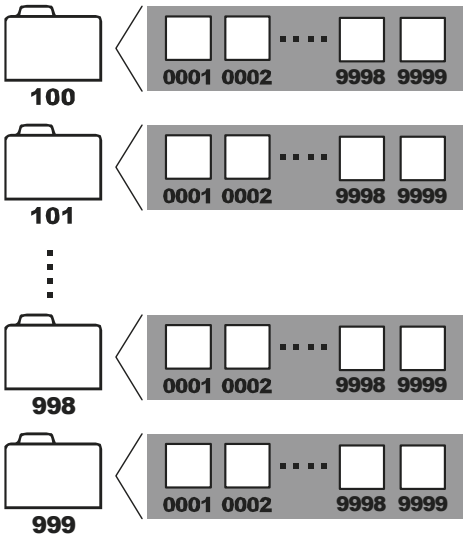
6 File Names & Printing

About File and Folder Numbers

Images or video clips are assigned file numbers from 0001 to 9999, and folders are assigned folder numbers from 100 to 999



Folder File Capacity

Each folder usually contains up to 9999 images. If a photo is taken when the folder with highest folder number contains a picture file number equal to or greater than 9999, the camera creates a new folder by adding one to the current folder number. For example, if the current folder is “100DICAM” the new folder is named “101DICAM.”

If the highest folder number is 999 and the highest file number exceeds 9999, the camera will display the warning message “Folder Can Not Be Created.”

If “Folder Can Not Be Created” appears, follow one of the two methods below:

1. Format the memory. The folder number and file number are initialized and renumbered from 100 and 0001 respectively.
2. Turn on File Number Reset in the camera menu and plug in a new memory card.

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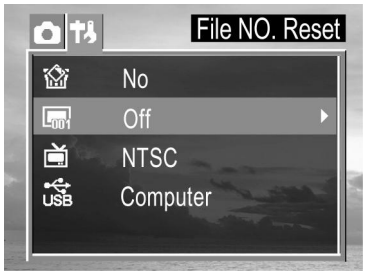
File Number Reset

Use File Number Reset if the camera experiences a “Folder Can Not Be Created” error or if you want to restart numbering, for example, after erasing all files.

On	The file numbers are reset to the start (0001) each time a new SD card is inserted. New images recorded on SD cards with existing files are assigned the next available number.
Off	The file number of the last image to be shot is memorized so that images recorded to a new SD card start from the next number.

1. Press the MENU button.
2. Press the ◀ or ▶ arrow to select the **REC Menu**.
3. Press the ▼ or ▲ arrow to select **File NO. Reset** then press the **SET** button.
4. Press the ▼ or ▲ to select the settings you wish to set then press the **SET** button.



1. Setting the File No. Reset to OFF is useful for avoiding file name duplication when images are downloaded to a computer.

2. If the memory card is formatted, the folder number and the file number are initialized and the count starts from 100 and 0001. If the file Number Rest is set to OFF, the numbering starts after format with the last file and folder number stored in the camera.

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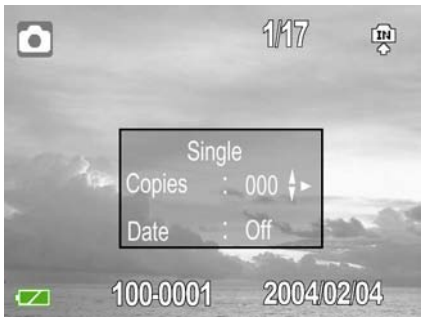
DPOF Print Settings

The Digital Print Order Format (DPOF) setting allows you to select images on an SD card for printing and specify the number of print copies in advance using the camera. This is extremely convenient for sending the images to a photo developing service or for printing on a direct print function compatible printer.

Selecting Images for Printing

In play ▶ mode.

1. Press MENU button.
2. In the Playback menu, press the ▼ or ▲ arrow to select **Print Order**.
3. Press **SET** to enter the **PRINT** setting menu.
4. Press the ▼ or ▲ arrow to select **Single, All, Reset** then press the **SET** button.
5. Press the ▼ or ▲ to set the number of copies (up to 999), then press ▶ to confirm the setting.
6. Press the ▼ or ▲ to set date on/off, then press **SET** button to confirm the setting.
7. Press the MENU button to close the menu window.



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Printing still images with a PictBridge printer

You can easily print images shot with your camera without using a computer by using a PictBridge-compliant printer.

1. Turn on the camera and the printer.
2. Set the USB mode to connect the camera with a printer. (P.30)
3. Connect the supplied USB interface cable to the printer's USB port and the camera's DIGITAL terminal.

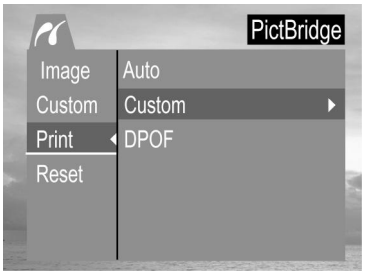
Printing images

The PictBridge menu will be launch automatically when connecting the camera to a printer that supports PictBridge.

1. Press the ▼ or ▲ arrow to select **Image**. Press **SET** to enter the setting menu.
2. Press the ▼ or ▲ arrow to select **Single, All** then press the ▶ button.

3. Press the ▼ or ▲ to set the number of copies (up to 30), then press **SET** to confirm the setting.
4. Press the ▼ or ▲ arrow to select **Print** then press the ▶ button.

5. Press the ▼ or ▲ arrow to select **Custom** then press the ▶ button.



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6. Press the ▼ or ▲ arrow to select **Start** then press the **SET** button.
7. The images is printed.

Setting Print Size

1. In **PictBridge** menu.

2. Press the ▼ or ▲ arrow to select **Custom**. Press ▶ to enter the setting menu.
3. Press the ▼ or ▲ arrow to select **Size** then press the ▶ button.
4. Press the ▼ or ▲ to set the size of print, then press **SET** to confirm the setting.

1. The Printer's options for the style category will differ slightly for different printers.

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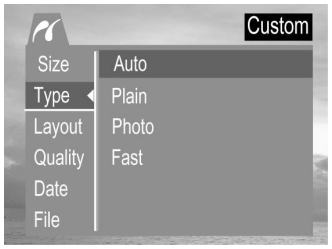
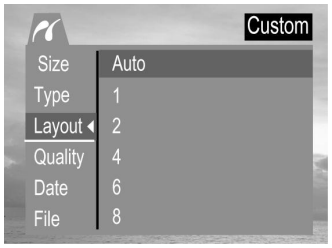
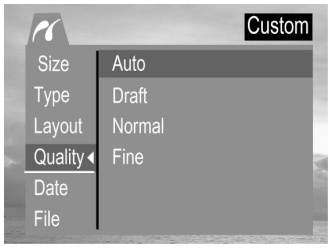
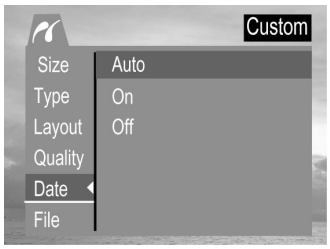
PictBridge Custom Menu

Item	Menu Screen	Settings Content
Size		• Auto • Postcard • 4 × 6 • 8 × 10 • A6 • A4 • B5
Type		• Auto • Plain • Photo • Fast
Layout		• Auto • 1 • 2 • 4 • 6 • 8 • Index • Full
Quality		• Auto • Draft • Normal • Fine
Date		• Auto • On • Off
File		• Auto • On • Off

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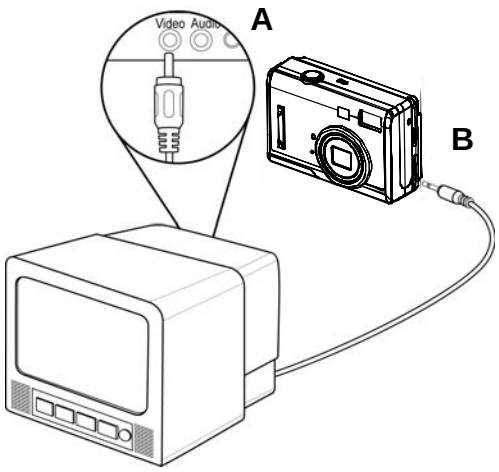
7 Making Connections

Viewing Images on the TV

Images displayed on the camera's LCD screen can also be displayed on a television screen.



1. Plug the included video cable into the camera TV Out port (**A**). Plug the other end into the TV set Video port (**B**).
2. Set the TV input signal to Video In. Refer to the documentation included with your TV for more information.
3. Everything that would normally appear on the camera's LCD screen, such as photo and video clip playback, slide shows, and image or video capture, appears on the TV.

Selcting the Video Out Signal Mode

The digital camera supports both NTSC (used in U.S.A., Japan, and other countries) and PAL (used in Europe and other areas) video signal systems. See TV Out Settings. section for information on setting the camera's video system to match your region.

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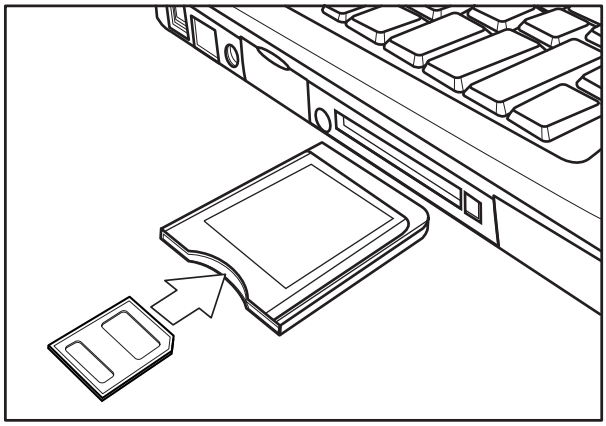
Downloading Images to a Computer

Download images taken with the camera to a computer in one of the following ways:

1. Directly from the SD card.
2. Connect the camera to a computer with the USB cable.

   You must install the software and USB driver bundled on the Software Installation CD-ROM before connecting the camera to the computer.



Downloading Directly from an SD Card

1. Eject the SD card from the camera, and insert it into an SD card reader connected to the computer.

   Note: If you are using a PC card reader, first insert the SD card into a PC card reader adapter (optional), and then insert the PC card adapter into the computer's PC card slot.
2. Double-click the icon of the drive with the SD card.
3. Copy images from the card into a folder of your choice on the hard disk.

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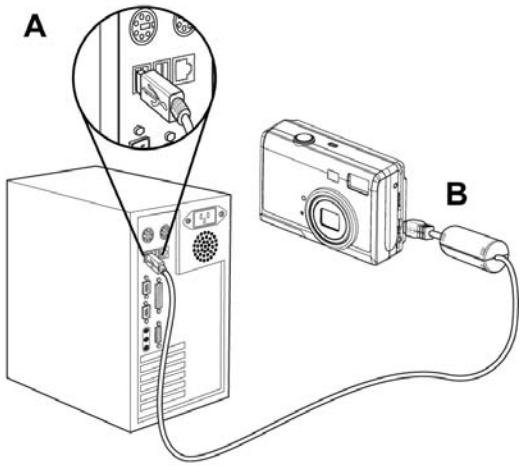
Connecting the Camera to a Computer with a USB Cable

Note for Win 98/98 SE users: You must install the software and USB driver bundled on the Digital Camera software installation CD-ROM before connecting the camera to the computer.

Connect the supplied USB interface cable to the computer's USB port and the camera's DIGITAL terminal.



1. *You do not need to turn off the computer or camera when making this connection.*
2. *Please refer to your computer manual for information regarding the location of the USB port.*

The LCD monitor turns off when the connection to the computer has been successfully completed.

1. *The camera will turn off automatically if the USB cable is disconnected.*
2. *Use an optional AC power adapter when connected to a computer to save battery power.*
3. *Windows 98/98SE user: If this is the first time the camera has been connected to the computer, Windows detects the camera as an "Unknown device" and automatically completes the required software installation.*

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Open My Computer or Windows Explorer. A “internal” appears in the drive list.

Double-click the “internal” icon to view its contents.

Files stored on camera are located in the folder named “DCIM”

Understanding Camera Memory and Storage

Internal Memory

The digital camera is equipped with internal memory. If an SD card is not installed in the camera, all photos recorded by the camera will be stored in the internal memory. If an SD card is installed, photos and video clips are stored on the SD card.

Optional SD Memory Card

Photos, video clips, and other information recorded by the camera are stored on the SD card using the Design Rule for Camera File System (DCF) protocol. The DCF protocol is designed to accommodate file and data exchange between digital cameras and other devices.

DCF Protocol

The DCF protocol defines the format for image file data as well as the directory for the memory card. Photos that are taken by a DCF camera can be viewed on DCF-compatible cameras from other manufacturers.

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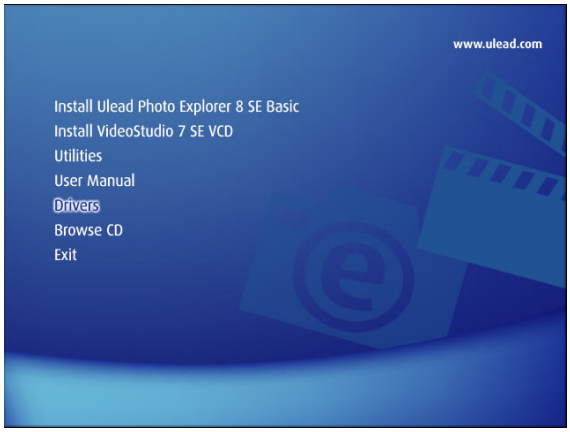
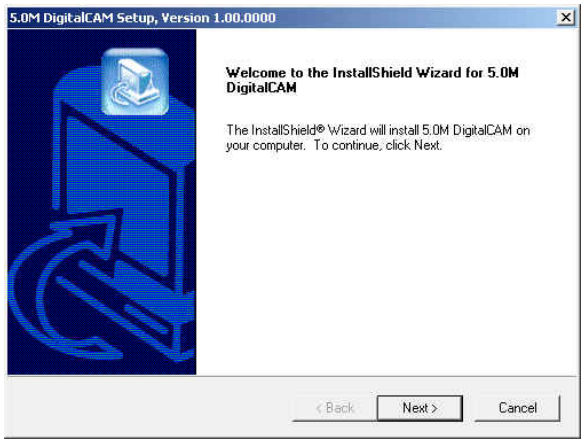
8 Installing Software

Install the Software Driver

You must install the camera software drivers if your operating system is Windows 98 or Windows 98 SE. Once the USB driver is installed, you do not need to install the USB driver again.

1. Start up your computer, and insert the software installation CD-ROM into the CD-ROM drive.
2. The model selection screen appears, If it does not appear, double-click **My Computer** and find the CD-ROM drive, then double-click the **AutoRun**.




5.0M DigitalCAM Setup, Version 1.00.0000
Welcome to the InstallShield Wizard for 5.0M DigitalCAM
The InstallShield® Wizard will install 5.0M DigitalCAM on your computer. To continue, click Next.
< Back
Next >
Cancel

3. Click **Drivers** on the model selection screen. Choose a language from the menu and click **OK**. The “InstallShield Wizard” screen appears.
4. Click **Next**.

   The USB driver installation starts. When the installation is completed, the screen informs you of completion.
5. Click “Yes, I want to restart my computer now” then click “Finish”

   Your computer restarts. Then, you can establish USB connection.

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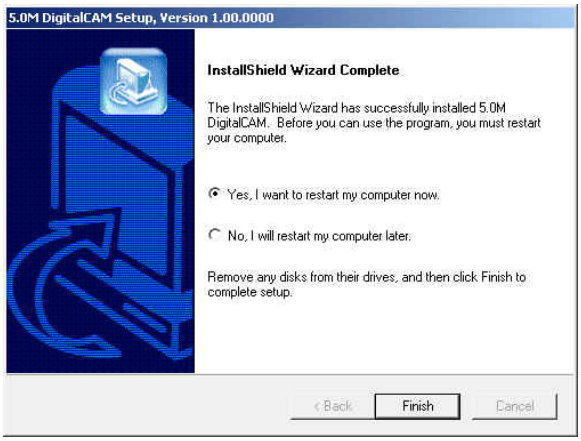
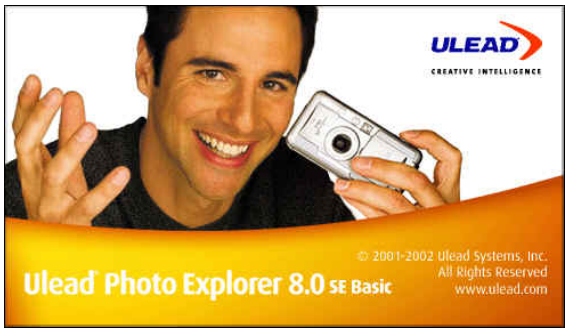

5.0M DigitalCAM Setup, Version 1.00.0000
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed 5.0M DigitalCAM. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Installing Ulead Photo Explorer 8 SE Basic

Ulead Photo Explorer 8 SE Basic is a photo editing application that is included for free in the software installation CD-ROM. You must use Windows XP/ME/2000/98SE on your computer to use this software.

1. Start up your computer, and insert the software installation CD-ROM into the CD-ROM drive.
2. The model selection screen appears, If it does not appear, double-click **My Computer** and find the CD-ROM drive, then double-click the **AutoRun**.



3. Click **Ulead Photo Explorer 8 SE Basic** on the model selection screen. Choose a language from the menu and click **OK**. Follow the on-screen instructions to install the software.

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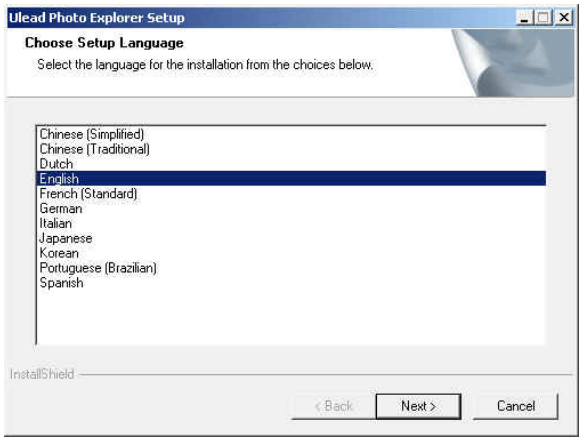
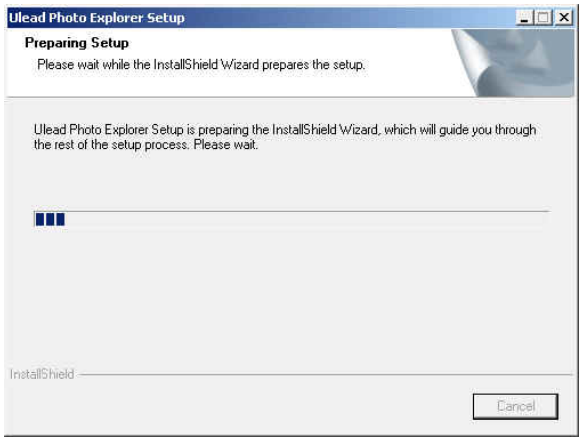
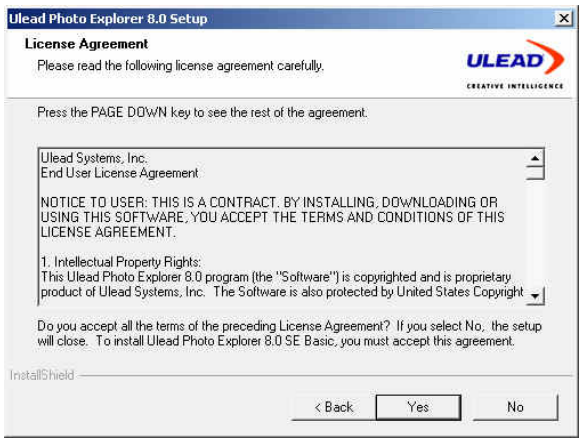



Ulead Photo Explorer Setup
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
Ulead Photo Explorer Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShield
Cancel

4. A welcome window appears. Click Next to continue with the installation.

Ulead Photo Explorer 8.0 Setup
Welcome to Ulead Photo Explorer 8.0 SE Basic Setup
This program will install Ulead Photo Explorer 8.0 SE Basic on your computer. It is strongly recommended that you exit all Windows programs before running this Setup program.
Next >
Cancel

5. The Software License Agreement window appears. To accept the license, click Yes to continue. If you disagree with the terms of the license, click No to exit the installation program.


Ulead Photo Explorer 8.0 Setup
License Agreement
Please read the following license agreement carefully.
ULEAD
CREATIVE INTELLIGENCE
Press the PAGE DOWN key to see the rest of the agreement.
Ulead Systems, Inc.
End User License Agreement
NOTICE TO USER: THIS IS A CONTRACT. BY INSTALLING, DOWNLOADING OR USING THIS SOFTWARE, YOU ACCEPT THE TERMS AND CONDITIONS OF THIS LICENSE AGREEMENT.
1. Intellectual Property Rights:
This Ulead Photo Explorer 8.0 program (the "Software") is copyrighted and is proprietary product of Ulead Systems, Inc. The Software is also protected by United States Copyright
Do you accept all the terms of the preceding License Agreement? If you select No, the setup will close. To install Ulead Photo Explorer 8.0 SE Basic, you must accept this agreement.
InstallShield
< Back
Yes
No

6. Select a destination folder in which the software will be installed. For most users, C:\Program files\ is the most appropriate choice.

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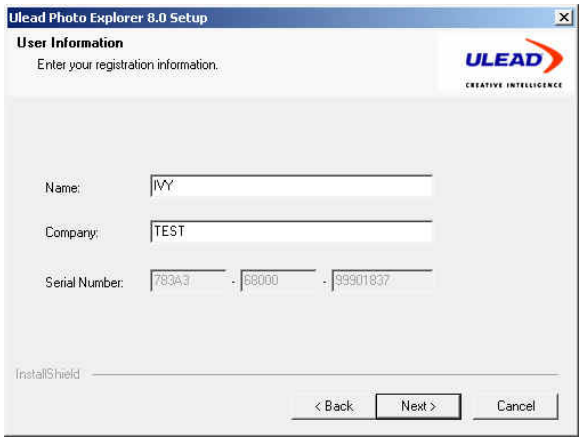
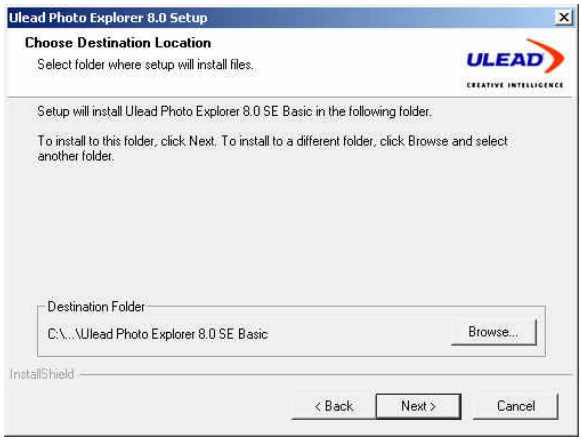
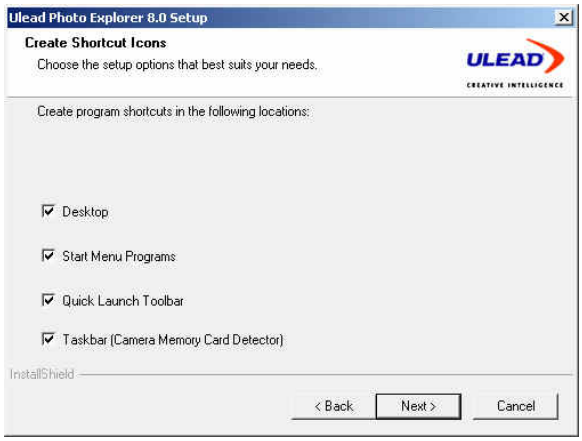
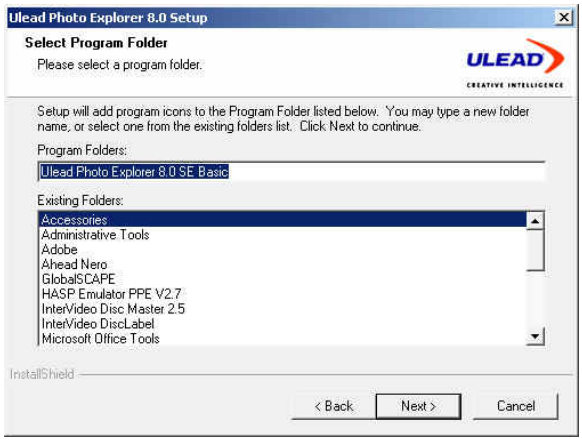


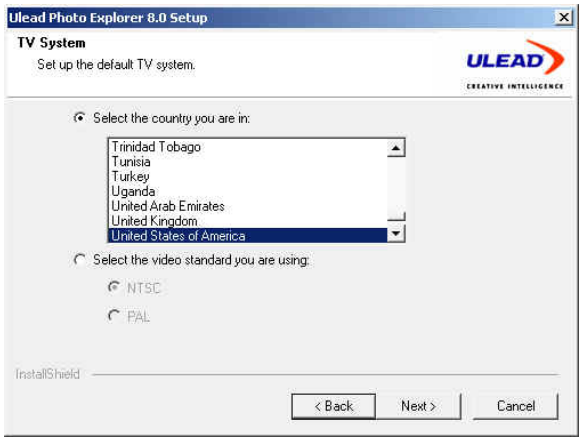

Ulead Photo Explorer 8.0 Setup
Choose Destination Location
Select folder where setup will install files.
ULEAD
CREATIVE INTELLIGENCE
Setup will install Ulead Photo Explorer 8.0 SE Basic in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\...\Ulead Photo Explorer 8.0 SE Basic
Browse...
InstallShield
< Back
Next >
Cancel

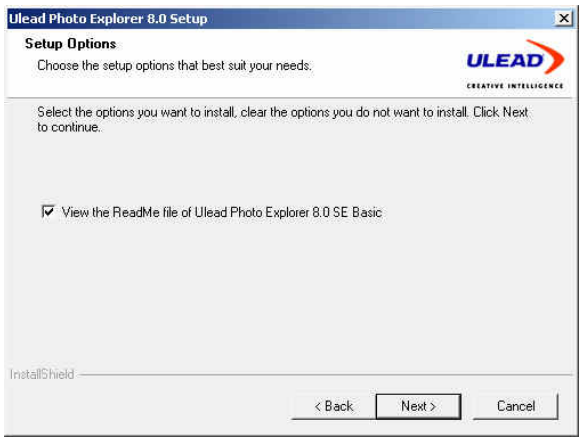
7. Click Next to begin copying files from the CD-ROM to the computer hard drive.





8. The TV System window appears. Select a country or video standard, then click Next to continue.
9. The Setup Options window appears. Click Next.




Ulead Photo Explorer 8.0 Setup
Setup Options
Choose the setup options that best suit your needs.
ULEAD
CREATIVE INTELLIGENCE
Select the options you want to install, clear the options you do not want to install. Click Next to continue.
View the ReadMe file of Ulead Photo Explorer 8.0 SE Basic
InstallShield
< Back
Next >
Cancel

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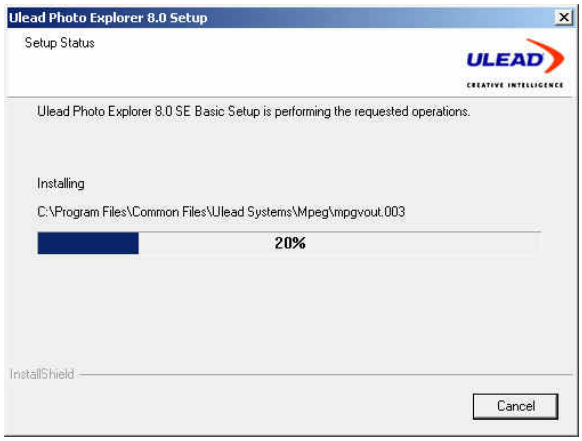
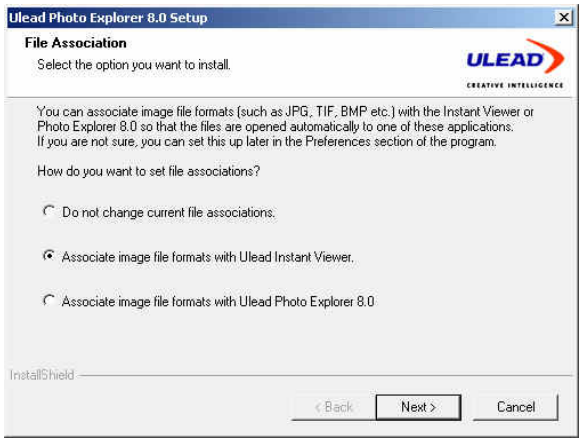
10. The File association window appears. Select “Associate file formats with Ulead Instant Viewer” to set file associations. Click Next to continue.




Ulead Photo Explorer 8.0 Setup
File Association
Select the option you want to install.
ULEAD
You can associate image file formats (such as JPG, TIF, BMP etc.) with the Instant Viewer or Photo Explorer 8.0 so that the files are opened automatically to one of these applications. If you are not sure, you can set this up later in the Preferences section of the program.
How do you want to set file associations?
Do not change current file associations.
Associate image file formats with Ulead Instant Viewer.
Associate image file formats with Ulead Photo Explorer 8.0
InstallShield
< Back
Next >
Cancel

11. When installation is completed, Click **Finish** to quit the InstallShield Wizard.

Ulead Photo Explorer 8.0 Setup
Setup Complete
Setup has finished installing Ulead Photo Explorer 8.0 SE Basic on your computer.
Register online.
Click Finish to complete Setup.
< Back
Finish

Using the Ulead Photo Explorer 8 SE Basic

Photo Explorer is a handy Web-enabled program for quickly viewing any multimedia file (such as image, animated GIF, video, or sound) in your computer. Operating very much like the Windows Explorer, Photo Explorer displays all your folders and files in a tree-like structure. Selecting a folder from this tree structure displays the image and graphics files in visual thumbnails. This provides the advantage of finding images visually rather than remembering file names when you want to open, delete, move, or copy files. You can take advantage of drag-and-drop technology when you want to insert a file into another application. Refer to the application help documentation for information on using the software.

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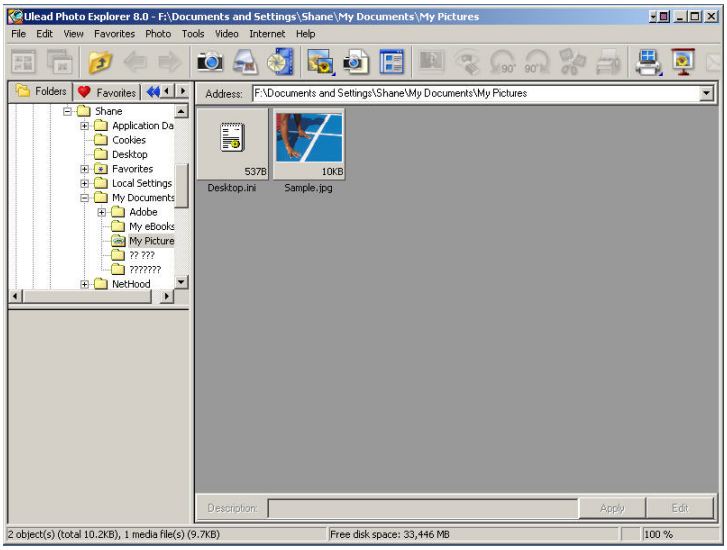
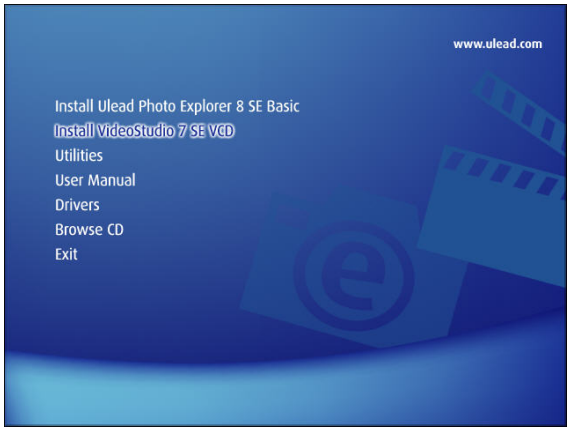
To start this program, click Start > Program > Ulead Photo Explorer 8 SE Basic



Installing Ulead VideoStudio 7 SE Basic

Ulead VideoStudio is a consumer video editing software that lets users quickly and easily produce their own home videos complete with attractive titles, video filters, transitions, and sound. Unlike other software, Ulead VideoStudio features an intuitive step-based interface that helps users get started right away. Once you have completed your video projects, you can share them on tape, e-mail, the Web or burn your own high-quality VCDs.

1. Click **Ulead VideoStudio 7 SE Basic** on the model selection screen. Choose a language from the menu and click **OK**.



2. Follow the on-screen instructions to install the software.

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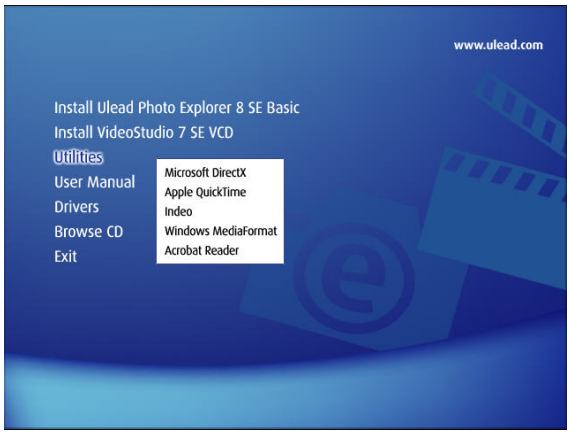
Installing Utilities

The utilities include **QuickTime, Indeo, Windows media format, Acrobat reader** and **Microsoft DirectX** software, which is required to play the recorded movie (mov file, asf file, Indeo format file or Windows media video) and read the PDF documents on your computer.

1. Click **Utilities** on the model selection screen.



2. Follow the on-screen instructions to install the software.

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9 Appendix

Troubleshooting

Problem	Cause	Solution
Power does not turn on	Battery is inserted in the wrong direction	Reload battery in the correct direction.
	Batteries are dead	Replace or recharge batteries
	The battery compartment door is open	Make sure the battery compartment door is securely closed.
The camera does not take pictures	The flash is charging	Wait for the flash to charge.
	Memory is full	Insert a new SD card
	SD card is not formatted correctly	The card may be defective, use a new card.
	Maximum file number is exceeded	Turn “File No. Reset” on, then format the card or insert a new card.
Image is not recorded when the shutter button is pressed	The flash is charging	Wait for the flash to charge.
	Memory is full	Insert an new SD card
The flash doesn’t fire	Flash is set to OFF	Set the flash to any mode except off.
Image is blurry or out of focus	The camera was moving when the image was captured	Hold the camera steady when shooting picture.
	The subject was beyond the range within which the camera can focus	Turn the Macro mode on if the subject is within 10 cm (zoomed out) or 50 cm (zoom in) / don’t use Macro mode when shooting distant subjects.
Image is not displayed on the LCD monitor	An SD Card with non-DCIF images (recorded with another camera) is loaded	This camera cannot display non-DCIF images.
Recorded images are not saved in memory	The camera was turned off/powered down before the image was stored in memory	If the Battery Low indicator appears on the LCD monitor, replace the battery immediately.
Cannot transfer images to a computer after connecting the USB cable	USB driver is not installed	Install the USB driver before you connect the camera to a computer / turn the camera on.

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Specifications

Sensor	5.36 Mega Pixels CCD Size : 1/2.5 inch
Lens	Focal length:f5.9~f17.17mm, 3× zoom lens
View Finder	Optical with real image
Color LCD Display	1.6” TFT LCD Panel
Focus Range	Normal Mode:50cm~infinity, Macro Mode:10cm~50cm
ISO/ASA Sensitivity	70
Still Image Resolution	2592 × 1944, 2304 × 1728, 1600 × 1200, 640 × 480,
Video Resolution	MPEG4 , (320 × 240, 30 fps), with audio
Still Image quality	Fine : 5 × compression rate Normal : 8 × compression rate Economy : 12 × compression rate
Exposure Control	Auto & Manual
Exposure Compensation	-2EV to +2EV in 1/3 step.
Auto Lock	AE is locked by S1
Exposure Meter	Auto, Multi, Spot
Shutter	Mechanical shutter, 1/2000 ~ 8 sec. with CCD variable electronic shutter
Optical Zoom	3 × , continues
Digital Zoom	Preview mode : 4 ×, continuous Playback mode : 8 ×, scrollable
Image File Format	Still : EXIF 2.2 compatible format (JPEG compression) DCF compatible. Support DPOF, PIM II, Pictbridge
White Balance	Auto, Day light, Shade, tungsten, fluorescent
Photo Effect	No effect, B&W effect, Sepia, Vivid
Start-up Time	Less than 4 sec.
Picture Storage	Internal : 16 MB embedded flash memory External : SD memory card up to 512 MB
Microphone	Built-in
Sound Feedback	Speaker
Communication Interface	USB 1.1, Compliance with USB2.0
Self-Timer	10 sec. with beep sound
Playback Mode	Single / 9 thumbnails / slide show
Power Supply	Battery : AA Size x 2 DC input : 3.3V 2.0A DC adapter
Dimensions	92.1 × 62.1 ×35.5 (mm)
Weight	Camera body w/o batteries: 147 g
Ambient temperature	Operating : -5 to 40 ˚ C Storage : -20 to 60 ˚ C

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